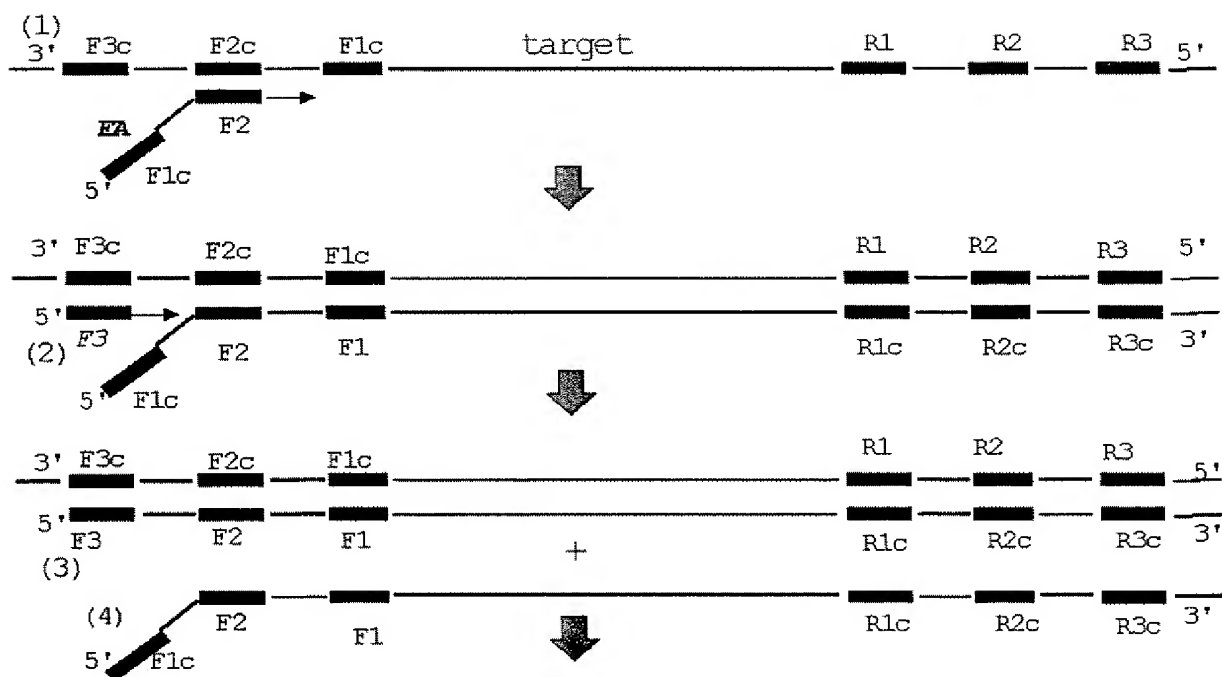


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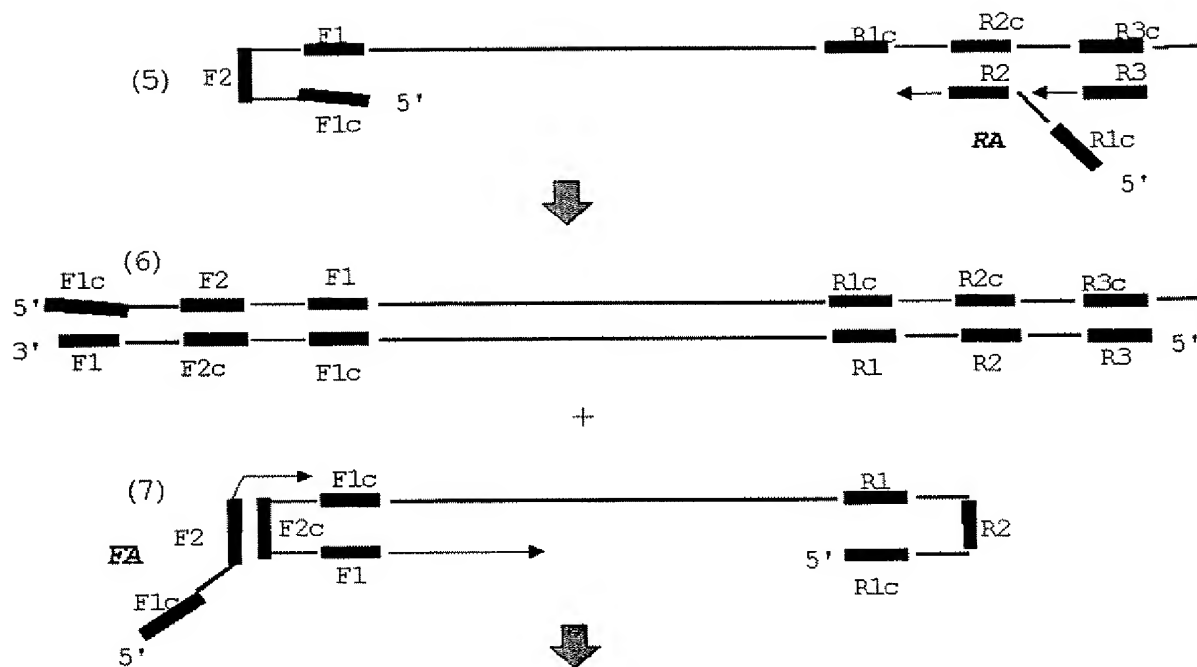
Fig. 1



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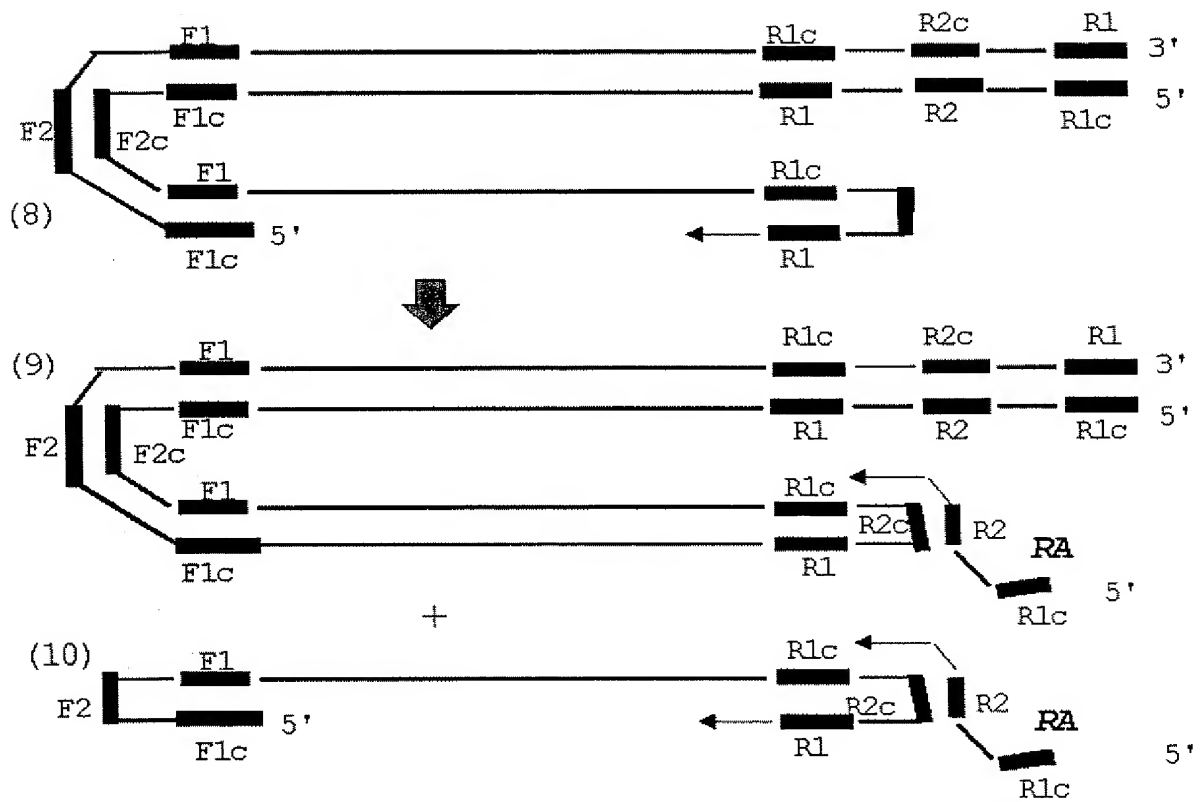
Fig. 2



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Fig. 3



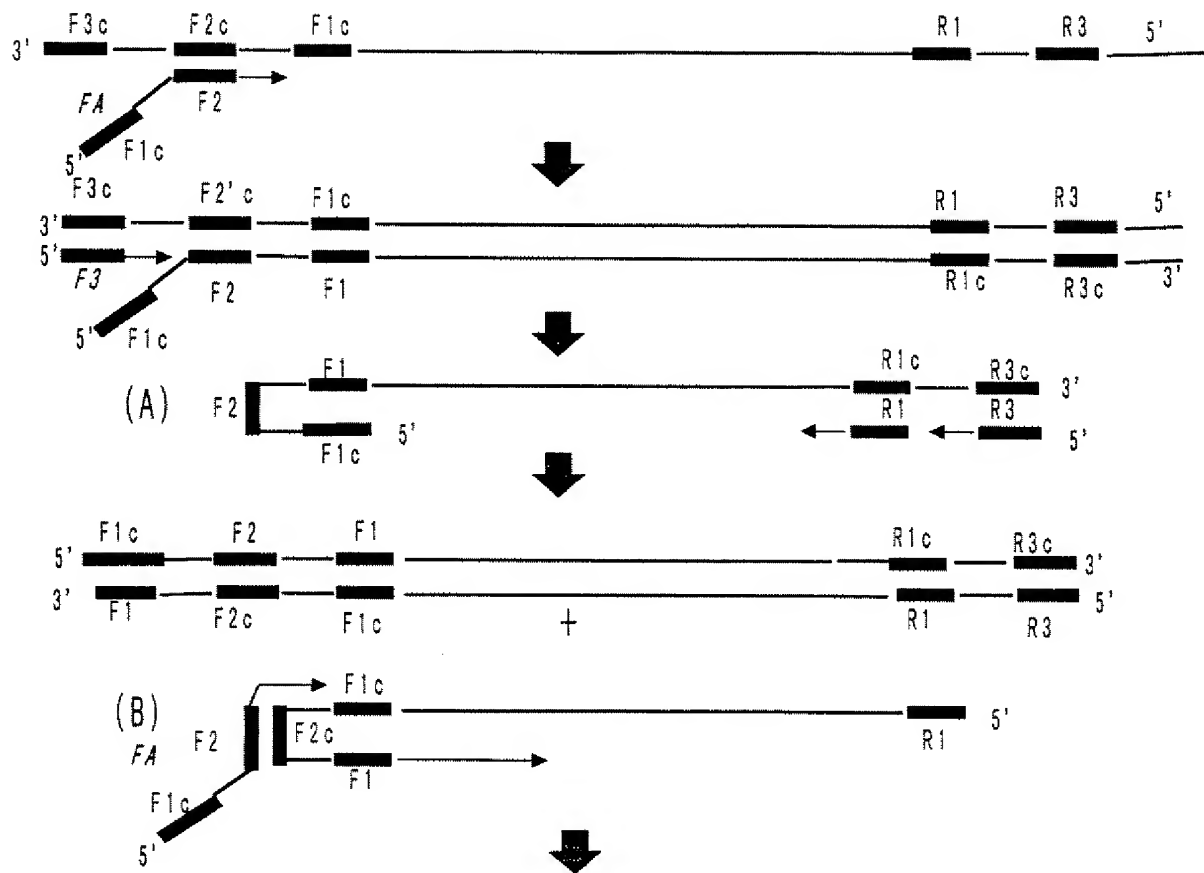
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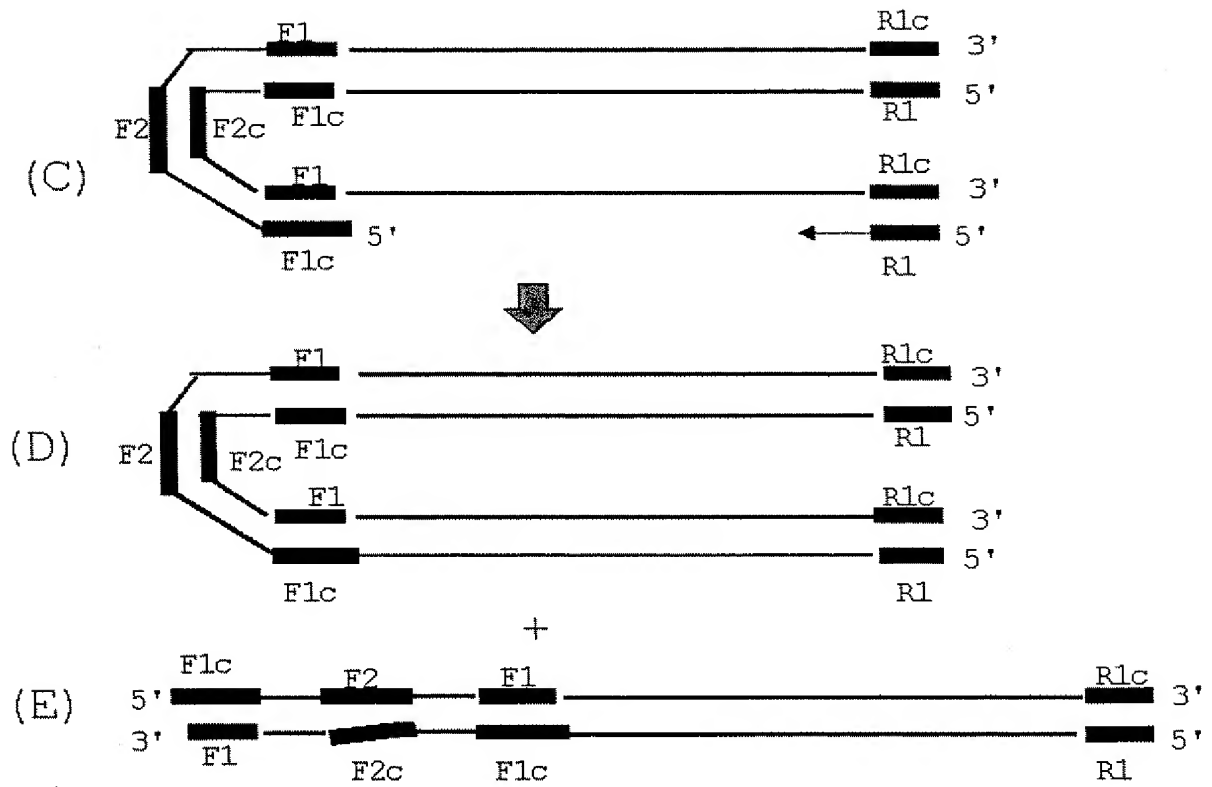
Fig. 5



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Fig. 6



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Fig. 7

6001 GGGCCCAATA CGCAAPCCGC CTC'TCCOOCG GGGTTGGOCG ATTCATTAAAT GCAGCTGGCA

6061 CGACAGGTTT COGACTGGA AAGCGGGCAG TGAGCGCAAC GCAATTAATG TGAGTTAGCT

6121 CACTCATTAG GCACOCCAGG CTTTACACTT TATGCTTCCG GCTCGTATGT TGTGTGGAAT

6181 TGTGAGCGGA TAACAATTTC ACACAGGAAA CAGCTATGAC CATGATTACG AATTCGAGCT

6241 CGGTACOCGG GGATCCTCTA GAGTCGACCT GCAGGCATGC AAGCTTGCCA CTGGCOGTG

6301 TTTTACAACG TCGTGACTGG GAAAACCCTG GCGTTACCCA ACTTAATGCG CTTGCAGCAC

6361 ATCCCCCTTT CGCCAGCTGG CGTAATAGCG AAGAGGOC CG CACCGATCG CCTTCCCAAC

6421 AGTTGCGCAG CCTGAATGGC GAATGGCGCT TTGCTGGTT TOCGGCAOCA GAAGCGGTGC

6481 CGGAAAGCTG GCTGGAGTGC GATCTTCCTG AGGOCGATAC GGTCGTCGTC CCTCAAAC

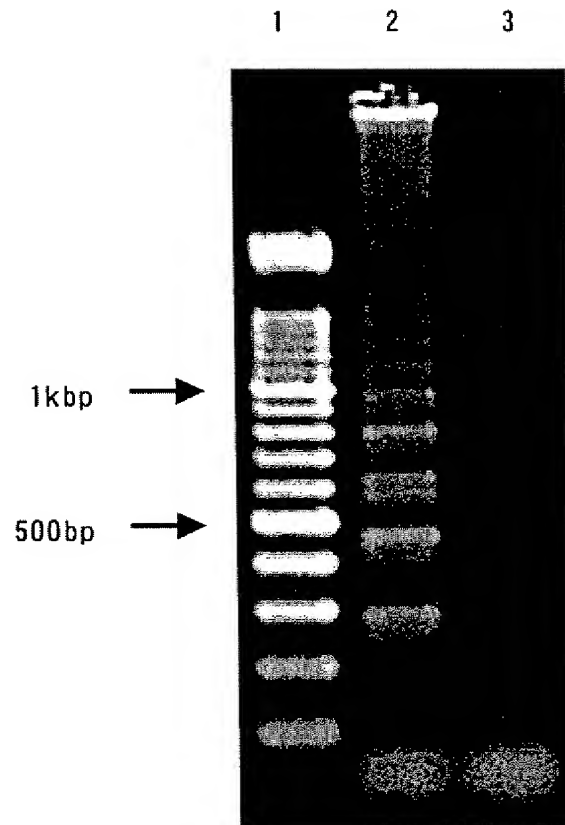
6541 GGCAGATGCA CGGTTACGAT GCGCCCATCT ACACCAACGT AACCTATGCC ATTACGGTCA

The diagram illustrates the positions of six primers (M13F3, M13F2, M13F1c, M13R1c, M13R2, and M13R3) relative to a DNA sequence. The sequence is presented in lines of 10 nucleotides each, with line numbers 6001 through 6541 on the left. Primers are indicated by horizontal arrows above or below the sequence. M13F3 and M13F2 are forward primers pointing right, located between lines 6121 and 6181. M13F1c is a reverse primer pointing left, located between lines 6181 and 6241. M13R1c is a reverse primer pointing right, located between lines 6241 and 6301. M13R2 and M13R3 are reverse primers pointing left, located between lines 6361 and 6421.

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Fig. 8





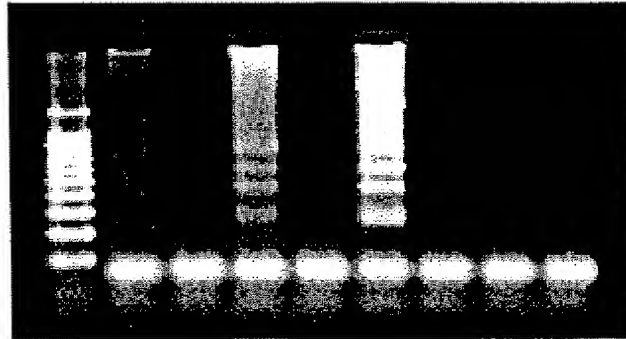
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Fig. 10

0      0.5      1      2M  
-21 N -21 N -21 N -21 N



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Fig. 11

1 CTCCTTGACA CCGCCTCTGC TCTGTATCGG GAGGOCTTAG AGTCTOOGGA ACATTGTTCA

61 OCTCACCATA CAGCACTCAG GCAAGCTATT CTGTGTTGGG GTGAGTTAAT GAATCTGGOC

HB65F3 HB65F2

121 ACCTGGGTGG GAAGTAATTT GGAAGACCCA GCATCCAGGG AATTAGTAGT CAGCTATGTC

HB65F1c

181 AATGTTAATA TGGGOCTAAA AATCAGACAA CTATTGTGGT TTCACATTTC CTGCCTTACT

HB65R1c

241 TTTGGAAGAG AACTGTTTT GGAGTATTTG GTATCTTTTG GAGTGTGGAT TCGCACTCCT

301 OCCGCTTACA GACCACCAAA TGCCCCTATC TTATCAACAC TTCCGGAAAC TACTGTTGTT

HB65R2 HBR3

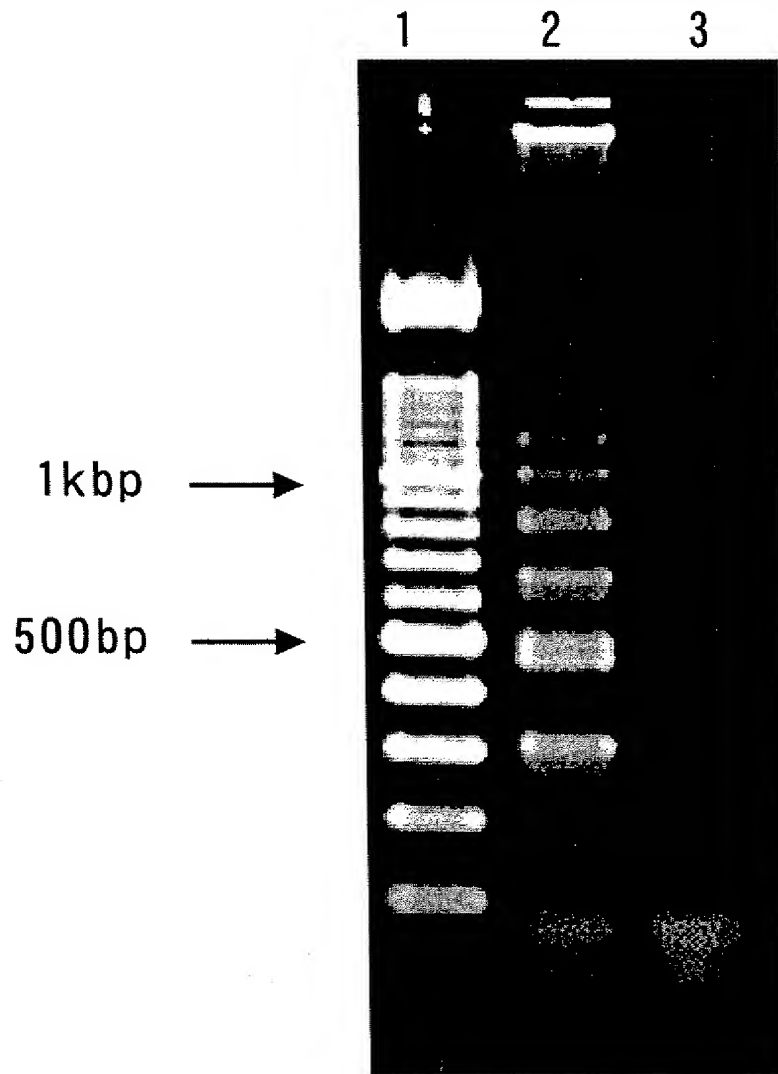
361 AGACGACGAG GCAGGTCCCC TAGAAGAAGA ACTOCCTCGC CTCGCAGACG AAGGTCTCAA

421 TCGCCGCGTC

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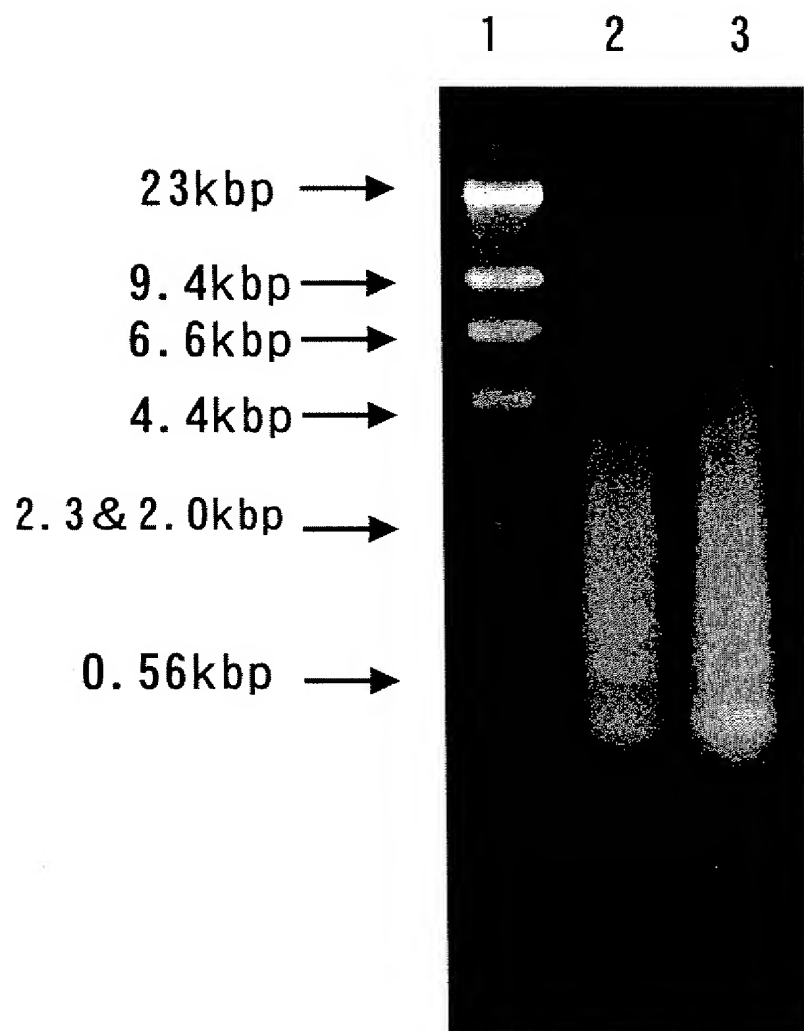
Fig. 12



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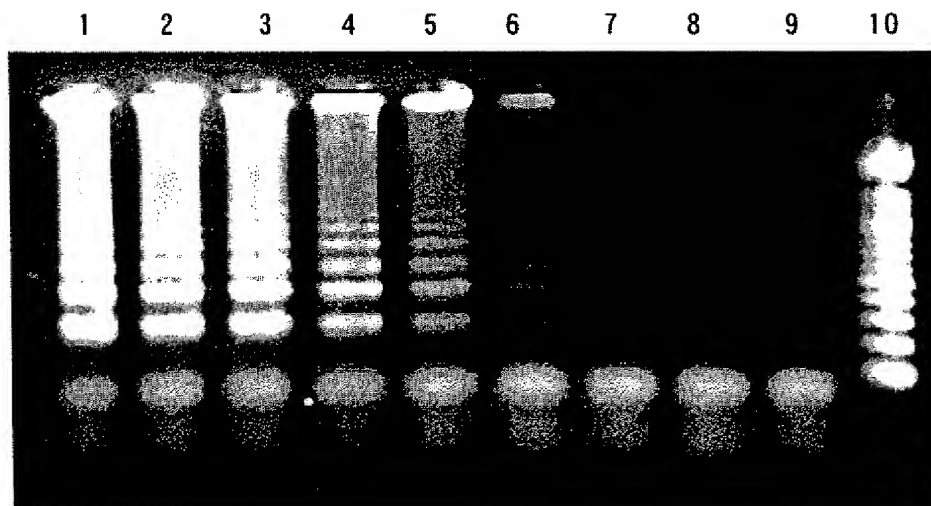
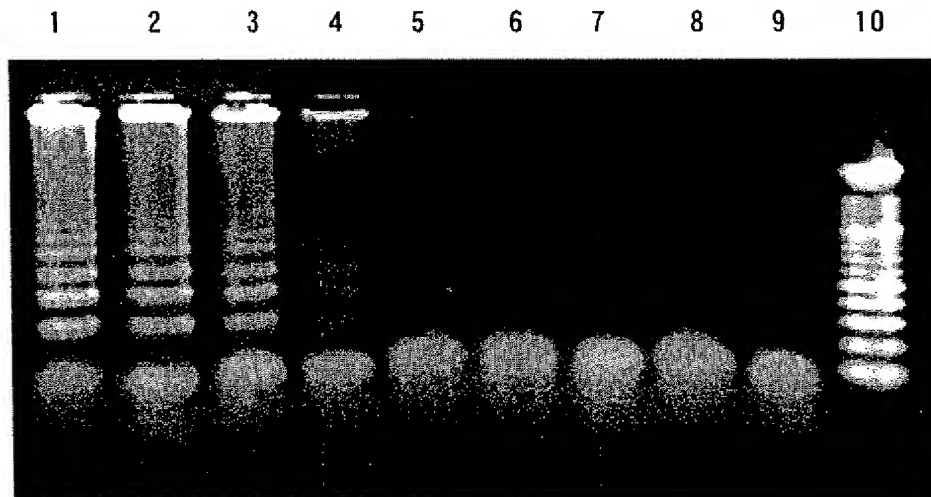
Fig. 13



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Fig. 14



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Fig. 15

6001 GCGCCCAATA CGCAAACCGC CTCTCCCCGC GCGTTGGCCG ATTCATTAAT GCAGCTGGCA

6061 CGACAGGTTT CCCGACTGGA AAGCGGGCAG TGAGCGCAAC GCAATTAATG TGAGTTAGCT  
M13F3 M13F2 d4

6121 CACTCATTAG GCACCCAGG CTTTACACTT TATGCTTCCG GCTCGTATGT TGTGTGGAAT

6181 TGTGAGCGGA TAACAATTTC ACACAGGAAA CAGCTATGAC CATGATTACG AATTCGAGCT  
M13F1c d4

6241 CCGTACCCGG GGATCCTCTA GAGTCGACCT GCAGGCATGC AAGCTTGGCA CTGGCCGTCG  
M13R1c d4 A

6301 TTTTACAACG TCGTGACTGG GAAAACCCTG GCGTTACCCA ACTTAATCGC CTTCGAGCAC

6361 ATCCCCCTTT CGCCAGCTGG CGTAATAGCG AAGAGGCCCG CACCGATCGC CCTTCCCAAC  
M13R2 d4 M13R3

6421 AGTTGCGCAG CCTGAATGGC GAATGGCGCT TTGCCTGGTT TCCGGCACCA GAAGCGGTGC

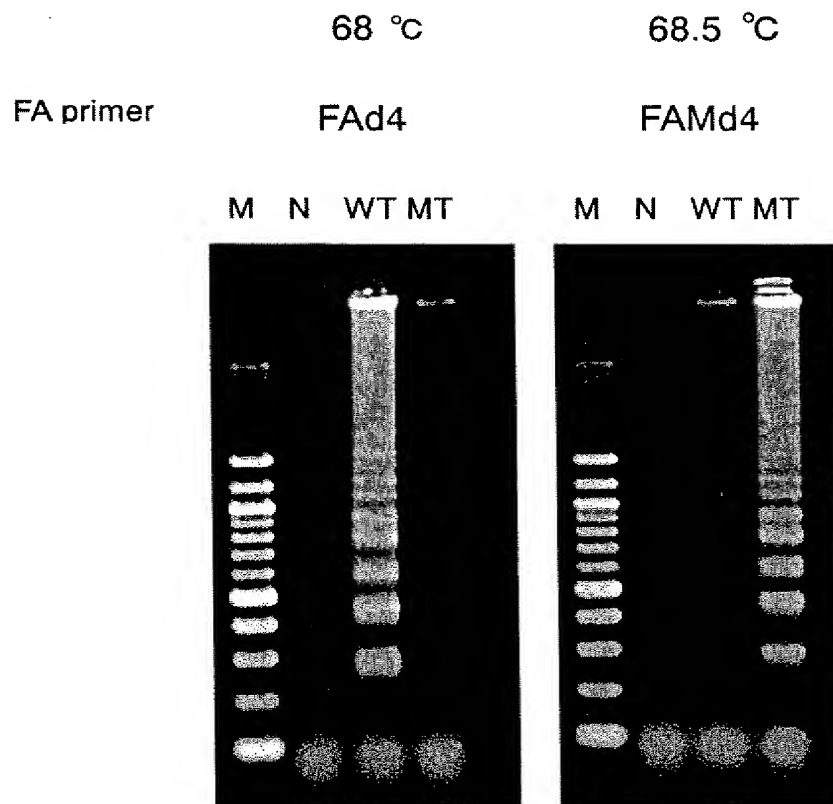
6481 CGGAAAGCTG GCTGGAGTGC GATCTTCCTG AGGCCGATAC GGTCGTCGTC CCCTCAAAC

6541 GGCAGATGCA CGGTTACGAT GCGCCCATCT ACACCAACGT AACCTATCCC ATTACGGTCA

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Fig. 16





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Fig. 17

1 ATTCCGCCGG AGAGCTGTGT CACCATGTGG GTCCCGGTTG TCTTCCTCAC CCTGTCCGTG

61 ACGTGGATTG GTGCTGCACC CCTCATCCTG TCTCGGATTG TGGGAGGCTG GGAGTGCGAG

121 AAGCATTCCC AACCCCTGGCA GGTGCTTGTG GCCTCTCGTG GCAGGGCAGT CTGCGGCGGT

181 GTTCTGGTGC ACCCCCAGTG GGTCCTCACA GCTGCCCACT GCATCAGGAA CAAAAGCGTG

241 ATCTTGCTGG GTCGGCACAG CCTGTTTCAT CCTGAAGACA CAGGCCAGGT ATTTCAGGTC

301 AGCCACAGCT TCCCACACCC GCTCTACGAT ATGAGCCTCC TGAAGAATCG ATTCCTCAGG

361 CCAGGTGATG ACTCCAGCCA CGACCTCATG CTGCTCCGCC TGTCAGAGCC TGCCGAGCTC

421 ACGGATGCTG TGAAGGTCAT GGACCTGCCC ACCCAGGAGC CAGCACTGGG GACCACCTGC

481 TACGCCTCAG GCTGGGGCAG CATTGAACCA GAGGAGT

PSAF3 PSAF2 PSAF1c  
Sau3AI PSAR1c PSAR2 PSAR3

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Fig. 18

